



Sample	15 min saline		15 min urine		1 hr urine		24 hr urine	
	Cl. Wt.	Cl. Str.	Cl. Wt.	Cl. Str.	Cl. Wt.	Cl. Str.	Cl. Wt.	Cl. Str.
<b>A</b> Control- Blm 75/25 scoop blend	27.66	0.94	26.82	0.91	26.15	1.10	20.74	1.51
	27.72	0.93	26.85	0.92	26.29	1.04	20.79	1.66
	27.53	0.96	26.97	0.95	26.37	1.04	20.11	1.97
	avg.	27.64	0.94	26.88	0.93	26.27	1.06	20.55
<b>B</b> CMS prototype # 2	32.95	1.17	32.04	0.93	32.27	1.23	28.52	7.13
	32.97	1.26	31.54	1.16	31.23	0.95	27.38	7.80
	32.92	1.10	32.18	1.11	32.00	1.21	27.22	6.02
	avg.	32.95	1.18	31.92	1.07	31.83	1.13	27.71
<b>C</b> CMS prototype # 3	32.61	1.12	33.17	1.31	31.44	1.44	27.59	6.80
	32.74	1.42	33.65	1.29	28.99	1.09	27.08	5.81
	32.43	1.16	33.94	1.35	32.10	1.26	26.94	3.74
	avg.	32.59	1.23	33.59	1.32	30.84	1.26	27.20
<b>D</b> CMS prototype # 4	32.20	1.38	32.43	1.06	30.78	1.09	26.78	3.29
	31.86	1.25	33.16	1.59	31.84	1.66	26.96	3.03
	31.53	1.37	32.07	1.68	32.42	1.22	27.50	4.88
	avg.	31.86	1.33	32.55	1.44	31.68	1.32	27.08
<b>E</b> CMS prototype # 7	33.36	1.14	35.09	1.41	35.24	1.25	31.23	5.59
	34.37	1.23	34.61	1.26	35.43	1.69	29.45	3.66
	34.33	1.25	34.69	1.52	34.38	0.97	27.94	3.46
	avg.	34.02	1.21	34.80	1.40	35.02	1.30	29.54
<b>F</b> CMS prototype # 8	34.62	1.52	34.76	1.25	32.97	0.97	29.78	4.93
	34.17	1.23	35.34	1.45	34.17	1.02	29.64	4.48
	34.47	1.21	35.41	0.94	33.79	1.58	27.76	3.69
	avg.	34.42	1.32	35.17	1.21	33.64	1.19	29.06

Note: Standardized male urine (sp. Gr. 1.050) was used for all urine clump strength testing.  
2 % Saline solution was used for all saline clump testing.

CMS Prototype Samples B through F are 70.0% Seed Base produced from  
by-product dust, and 30.0 % 200 mesh Bentonite coating powder

FIG. 2

A			B			C		
Screen Analysis			Screen Analysis			Screen Analysis		
mesh	grams	%	mesh	grams	%	mesh	grams	%
8	0	0	8	76.5	20.1	8	52.1	13.1
12	0.8	0.2	12	195.4	51.3	12	197.7	49.8
14	3.8	0.9	14	83.2	21.9	14	105.6	26.6
20	141	35.1	20	18.2	4.8	20	16.6	4.2
40	214.6	53.5	40	0.7	0.2	40	0.4	0.1
50	33.4	8.3	50	0	0	50	0	0
pan	7.8	1.9	pan	6.6	1.7	pan	24.9	6.3
Fin.Wt.	401.4		Fin.Wt.	380.6		Fin.Wt.	397.3	

<i>D</i>			<i>E</i>			<i>F</i>		
Screen Analysis			Screen Analysis			Screen Analysis		
mesh	grams	%	mesh	grams	%	mesh	grams	%
8	66.5	16.2	8	25.2	6.6	8	48.5	12.6
12	220.9	53.7	12	174.3	45.5	12	195.3	50.8
14	83.1	20.2	14	108.3	28.3	14	87.2	22.7
20	17.8	4.3	20	53.6	14	20	36.9	9.6
40	0.4	0.1	40	5	1.3	40	3.4	0.9
50	0	0	50	1.1	0.3	50	0.1	0
pan	22.7	5.5	pan	15.8	4.1	pan	13.3	3.5
Fin.Wt.	411.4		Fin.Wt.	383.3		Fin.Wt.	384.7	

<i>Sample</i>	<i>Bulk Density (lbs./ cu. Ft.)</i>	<i>Moisture (percent)</i>
<i>A</i>	<i>55.8</i>	<i>6.21</i>
<i>B</i>	<i>46.6</i>	<i>9.75</i>
<i>C</i>	<i>47.5</i>	<i>6.65</i>
<i>D</i>	<i>45.9</i>	<i>5.65</i>
<i>E</i>	<i>49.2</i>	<i>7.96</i>
<i>F</i>	<i>48.9</i>	<i>8.62</i>

FIG. 3